

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT(s): Toshiro Kisakibaru, et al. CLIENT DOCKET NO.: S01P1914US00  
SERIAL NO. 09/978,614 GROUP ART UNIT: 2812  
FILING DATE: October 16, 2001  
TITLE: MANUFACTURING APPARATUS AND MANUFACTURING METHOD FOR SEMICONDUCTOR DEVICE

Assistant Commissioner for Patents  
Washington, D.C. 20231

POWER OF ATTORNEY BY ASSIGNEE OF  
ENTIRE INTEREST AND REVOCATION OF ALL PRIOR POWERS

SIR:

As assignee of record of the entire interest of the above identified

application,  
 patent,

REVOCATION OF PRIOR POWERS OF ATTORNEY

Sony Corporation, as the sole assignee of all right, title and interest in the above-identified application for United States Patent, hereby revokes all powers of attorney previously granted in the application and

NEW POWER OF ATTORNEY

Sony Corporation further hereby appoints Messrs. Lewis T. Steadman, Sr. (17,074), Robert J. Depke (37,607), Todd S. Parkhurst (Reg. No. 26,494), Kevin A. Buford (Reg. No. 26,494), Stefan V. Stein (Reg. No. 29,702) and Anderson L. Baldy (40,496), all members of the firm of Holland & Knight LLP, as its attorneys with full power of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith.

SEND CORRESPONDENCE TO:

DIRECT TELEPHONE CALLS TO:

Lewis T. Steadman, Sr., Esq.  
Holland & Knight LLP  
55 West Monroe Street  
Suite 800  
Chicago, Illinois 60603

Robert J. Depke or  
Lewis T. Steadman, Sr.  
(312) 263-3600

Sony Corporation

(type identity of assignee of entire interest)

6-7-35 Kitashinagawa, Shinagawa-ku

Address

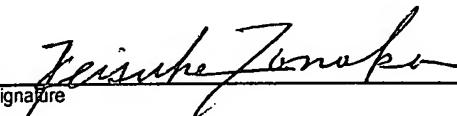
Tokyo 141, Japan.

Recorded in PTO on \_\_\_\_\_

Reel/Frame:

#### ASSIGNEE CERTIFICATION

Attached to this power is a "CERTIFICATE UNDER 37 CFR 3.73(b)".

  
Signature

Date April 26, 2002

Keisuke Tanaka

(type or print name of person authorized to sign on behalf of assignee)

Manager, Intellectual Property Division

Note: The assignee of the entire interest may revoke previous powers and be represented by an attorney of his or her selection. 37 CFR 1.36.

(check the following item, if it forms a part of this power of attorney)

Added page - Authorization of attorney(s) to accept and follow instructions from representative.

LIMITED POWER OF ATTORNEY TO TAKE ACTION  
ON BEHALF OF SONY CORPORATION

I hereby declare that I am Representative Director of Sony Corporation, a Japanese corporation with offices at 7-35 Kitashinagawa 6-Chome, Shinagawa-ku, Tokyo, Japan. As Representative Director of Sony Corporation, I hereby declare that I have the authority to execute documents required to be signed by and take actions on behalf of the Assignee, Sony Corporation, under 37 C.F.R. §3.71 and 3.73. I hereby grant power of attorney to execute those documents required to be signed by and take other actions on behalf of the Assignee, Sony Corporation, under 37 C.F.R. §3.71 and 3.73 to the following individual(s) with the same effect as if I had executed such documents or taken such actions under 37 C.F.R. §3.71 and 3.73 myself, such power to run until revoked in writing:

Reikichi Fujii  
Tsukasa Ikegami  
Susumu Aoyagi  
Keisuke Tanaka

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under § 1001 of Title 18 of the U.S. Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Signed:



Kunitake Ando

Date:

August 21, 2001

Title: Representative Director, Sony Corporation

## DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare that

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

### “MANUFACTURING APPARATUS AND MANUFACTURING METHOD FOR SEMICONDUCTOR DEVICE”

Case No. 09792909-5250, the specification of which

(check one) X is attached hereto  
was filed on October 16, 2001, as  
Application Serial No. 09/978,614  
and was amended on October 16, 2001  
(if applicable)

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims as amended by any amendment referred to above.

I acknowledge the duty to disclose to the United States Patent Office all information which is known to me to be material to the patentability of this application in accordance with Title 37, Code of Federal Regulations. 1.56<sup>1</sup>

I do not know and do not believe this invention was ever known or used in the United States of America before my or our invention thereof, or patented or described in any printed publication in any country before my or our invention thereof or more than one year prior to this application, that the same was not in public use or on sale in the United States of America more than one year prior to this application, and I believe that the invention has not been patented or made the subject of an inventor's certificate issued before the date of this application in any country foreign to the United States of America on an application filed by me or my legal representatives or assigns more than twelve months prior to this application, and that no application for patent or inventor's certificate on this invention has been filed in any country foreign to the United States of America prior to this application by me or my legal representatives or assigns, except as identified below:

I hereby claim foreign priority benefits under Title 35, United States Code, §119 of any foreign application(s) for patent or inventor's certificate listed below:

Prior Foreign Application(s)

Number	Country	Date
--------	---------	------

P2000-315363	Japan	October 16, 2000
--------------	-------	------------------

and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the above listed application on which priority is claimed:

<sup>1</sup> (b) Under this section, information is material to patentability when it is not cumulative to information already of record or being made of record in the application, and

- (1) It establishes, by itself or in combination with other information, a *prima facie* case of unpatentability of a claim; or
- (2) It refutes, or is inconsistent with, a position the application takes in:
  - (i) opposing an argument of unpatentability relied on by the Office, or
  - (ii) asserting an argument of patentability.

A *prima facie* case of unpatentability is established when the information compels a conclusion that a claim is unpatentable under the preponderance of evidence, burden of proof standard, giving each term in the claim its broadest reasonable construction consistent with the specification, and before any consideration is given to evidence which may be submitted in an attempt to establish a contrary conclusion of patentability.

## Prior Foreign Application(s)

Number

Country

Date

If no priority is claimed, I have identified all foreign patent applications filed prior to this application:

## Prior Foreign Application(s)

Number

Country

Date

I hereby appoint the following attorneys, David W. Maher (Reg. 20,107), Kevin W. Guynn (No. 29,927), Jeffrey F. Craft (Reg. 30,044), David R. Metzger (Reg. 32,919), D. Andrew Floam (Reg. 34,597), Michael Kiklis (Reg. 38,939), Marc E. Hankin (Reg. 38,908), Jordan A. Sigale (Reg. 39,028), Michael A. Molano (Reg. 39,777), Michael T. Marrah (Reg. 40,718), Jean C. Edwards (Reg. 41,728), Raymond J. Ho (Reg. 41,838), Mark H. Krietzman (Reg. 41,128), Jennifer H. Hammond (Reg. 41,814), Vincent Tassinari (Reg. 42,179), Marina N. Saito (Reg. 42,121), John F. Nethery (Reg. 42,928), Alison P. Schwartz (Reg. 43,863), Eric N. Kohli (Reg. 43,726), Matthew M. Catlett (Reg. 44,067), John F. Griffith (Reg. 44,137), Gregory B. Gulliver (Reg. 44,138) Christopher P. Rauch (Reg. 45,034), Francisco A. Rubio-Campos (Reg. 45,358), Brian J. Gill (Reg. P46,727); Donald Carley (Reg. 47,471), Thomas J. Burton (Reg. 47,464) and Shashank Upadhye (Reg. 4,209), with full power of substitution and revocation, to prosecute this application and to transact all business in the United States Patent and Trademark Office connected therewith and request that all correspondence and telephone calls in respect to this application be directed to

## SONNENSCHEIN NATH &amp; ROSENTHAL

80<sup>th</sup> Floor – Sears Tower

233 S. Wacker Drive, Chicago, IL 60606

Telephone 312/876-8000

Facsimile 312/876-3974

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of sole or first inventor TOSHIRO KISAKIBARU

Inventor's signature Toshiro Kisakibaru Date January 29, 2002  
 Residence Tokyo, Japan  
 Citizenship Japan  
 Post Office Address c/o Sony Corporation, 7-35, Kitashinagawa 6-chome  
Shinagawa-ku, Tokyo 141, Japan

Full name of second inventor ISAO HONBORI

Inventor's signature Isao Honburi Date January 7, 2002  
 Residence Kanagawa, Japan  
 Citizenship Japan  
 Post Office Address c/o Sony Corporation, 7-35, Kitashinagawa 6-chome  
Shinagawa-ku, Tokyo 141, Japan

Full name of third inventor YASUSHI KATO

Inventor's signature Yasushi Kato Date January 7, 2002  
 Residence Kanagawa, Japan  
 Citizenship Japan  
 Post Office Address c/o Sony Corporation, 7-35, Kitashinagawa 6-chome  
Shinagawa-ku, Tokyo 141, Japan

Full name of fourth inventor	<b>TOSHIKAZU SUZUKI</b>	
Inventor's signature	<i>Toshikazu Suzuki</i>	
Residence	Kanagawa, Japan	
Citizenship	Japan	
Post Office Address	c/o Sony Corporation, 7-35, Kitashinagawa 6-chome Shinagawa-ku, Tokyo 141, Japan	
Date		January 8, 2002
Full name of fifth inventor	<b>HIROHISA KORIYAMA</b>	
Inventor's signature	<i>Hiroyisa Koriyama</i>	
Residence	Kanagawa, Japan	
Citizenship	Japan	
Post Office Address	c/o Sony Corporation, 7-35, Kitashinagawa 6-chome Shinagawa-ku, Tokyo 141, Japan	
Date		January 7, 2002
Full name of sixth inventor	<b>HAYATO IWAMOTO</b>	
Inventor's signature	<i>Hayato Iwamoto</i>	
Residence	Kanagawa, Japan	
Citizenship	Japan	
Post Office Address	c/o Sony Corporation, 7-35, Kitashinagawa 6-chome Shinagawa-ku, Tokyo 141, Japan	
Date		January 10, 2002
Full name of seventh inventor	<b>HITOSHI ABE</b>	
Inventor's signature	<i>Hitoshi Abe</i>	
Residence	Kanagawa, Japan	
Citizenship	Japan	
Post Office Address	c/o Sony Corporation, 7-35, Kitashinagawa 6-chome Shinagawa-ku, Tokyo 141, Japan	
Date		January 10, 2002

03-15-2002



FORM PTO-1595

1/31/92

102018362  
PATENTS ONLY

OFFICE OF PUBLIC RECORDS  
SHEET U.S. DEPARTMENT OF COMMERCE  
202 FEB 28 PM 7-26  
Patent and Trademark Office

2002 FEB 28 PM 3:36  
Patent and Trademark Office

To the Honorable Commissioner of Patents and Trademarks: Please Record the attached original documents or copy thereof.

<p>1. Name of conveying party(ies):  <b>TOSHIRO KISAKIBARU</b>  <b>ISAO HONBORI</b>  <b>YASUSHI KATO</b>  <b>TOSHIKAZU SUZUKI</b>  <b>HIROHISA KORIYAMA</b>  <b>HAYATO IWAMOTO</b>  <b>HITOSHI ABE</b>  <p>2. Name and address of receiving party(ies):  <b>Name: Sony Corporation</b>  <p>Internal Address: _____  <b>7-35, Kitashinagawa 6-chome</b>  <b>Shinagawa-ku, Tokyo 141, Japan</b>  <p>Street Address: _____  <p>City: _____ State: _____ Zip: _____</p> </p></p></p></p>	
<p>Additional name(s) of conveying party(ies) attached?  <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>3. Nature of conveyance:  <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger  <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name  <input type="checkbox"/> Other _____</p> <p>Execution Date <u>January 7, 8, 10 and 29, 2002</u></p> <p>Additional Name(s) &amp; Address(es) attached <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	
<p>4. Application (number(s) or patent number(s):  If this document is being filed together with a new application, the execution date of the application is:</p> <p>A. Patent Application No.(s)  U.S. Serial No. <u>09/978,614</u> filed <u>October 16, 2001</u>  Attorney Docket No. <u>09792909-5250</u></p> <p>B: Patent No.(s)</p> <p>Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	
<p>5. Name and address of party to whom correspondence concerning document should be mailed:</p> <p><b>SONNENSCHEIN NATH &amp; ROSENTHAL</b>  P.O. Box #061080  Wacker Drive Station  Sears Tower  Chicago, IL 60606-1080  Customer ID No. 26263</p>	<p>6. Total number of applications and patents involved  <u>1</u></p> <p>7. Total Fee (37 CFR 3.41) ..... <u>\$ 40.00</u>  <input checked="" type="checkbox"/> Enclosed  <input checked="" type="checkbox"/> Authorized to be charged to deposit account any Additional fees</p> <p>8. Deposit Account Number:  <u>19.3140</u>  (Attach duplicate copy of this page if paying by deposit account)</p>
	<p>DO NOT USE THIS SPACE</p>
<p>9. Statement and signature:  <i>To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.</i></p> <p><u>David R. Metzger</u>  Name of Person Signing</p> <p><u>Signature</u></p> <p>February 13, 2002  Date  Total number of pages 4</p>	
<p>Mail documents to be recorded and required cover sheet information to:  Commissioner of Patents and Trademarks  Box Assignments  Washington, D.C. 20231+</p>	

08/14/2002 1 MUELLER 00000049 09978614

q1 FC:581

## ASSIGNMENT

WHEREAS, I, as a below named inventor, residing at the address stated next to my name, am a sole inventor (if only one name is listed below) or a joint inventor (if plural names are listed below) of certain new and useful improvements in MANUFACTURING APPARATUS AND MANUFACTURING METHOD FOR SEMICONDUCTOR DEVICE

for which application for Letters Patent of the United States of America was executed by me on the date indicated next to my name and address;

AND WHEREAS, Sony Corporation, a Japanese corporation with offices at 7-35 Kitashinagawa 6-Chome, Shinagawa-Ku, Tokyo, Japan (hereinafter referenced as ASSIGNEE) is desirous of acquiring all interest in, to and under said invention, said application disclosing the invention and in, to and under any Letters Patent or similar legal protection which may be granted therefor in the United States and in any and all foreign countries;

NOW THEREFORE, in consideration of the sum of One Dollar (\$1.00), and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, I, as a sole or joint inventor as indicated below, by these presents do hereby assign, sell and transfer unto the said ASSIGNEE, its successors, assigns, and legal representatives, the entire right, title and interest in the said invention, said application, including any divisions and continuations thereof, and in and to any and all Letters Patent of the United States, and countries foreign thereto, which may be granted for said invention, and in and to any and all priority rights and/or convention rights under the International Convention for the Protection of Industrial Property, Inter-American Convention Relating to Patents, Designs and Industrial Models, and any other international agreements to which the United States of America adheres, and to any other benefits accruing or to accrue to me with respect to the filing of applications for patents or securing of patents in the United States and countries foreign thereto, and I hereby authorize and request the Commissioner of Patents to issue the said United States Letters Patent to said ASSIGNEE, as the assignee of the whole right, title and interest thereto;

And I further agree to execute all necessary or desirable and lawful future documents, including assignments in favor of ASSIGNEE or its designee, as ASSIGNEE or its successors, assigns and legal representatives may from time-to-time present to me and without further remuneration, in order to perfect title in said invention, modifications, and improvements in said invention, applications and Letters Patent of the United States and countries foreign thereto;

And I further agree to properly execute and deliver and without further remuneration, such necessary or desirable and lawful papers for application for foreign patents, for filing subdivisions of said application for patent, and or, for obtaining any reissue or reissues of any Letters Patent which may be granted for my aforesaid invention, as the ASSIGNEE thereof shall hereafter require and prepare at its own expense;

And I further agree that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said application, said invention and said Letters Patent and legal equivalents in foreign countries as may be known and accessible to me and will testify as to the same in any interference or litigation related thereto;

And I hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment and sale.

And I hereby authorize and request my attorney(s) of record in this application to insert the serial number and filing date of this application in the spaces that follow: Serial Number: 09/987,614, Filing Date: Oct. 16, 2001.

This assignment executed on the dates indicated below.

TOSHIRO KISAKIBARU

Name of first or sole inventor

Execution date of U.S. Patent Application

TOKYO, JAPAN

Residence of first or sole inventor

Toshiro Kisakibaru  
Signature of first or sole inventor

January, 29, 2002

Date of this assignment

HAYATO IWAMOTO

Name of sixth inventor

Execution date of U.S. Patent Application

KANAGAWA, JAPAN

Residence of sixth inventor

*Hayato Iwamoto*

January 10, 2002

Signature of sixth inventor

Date of this assignment

HITOSHI ABE

Name of seventh inventor

Execution date of U.S. Patent Application

KANAGAWA, JAPAN

Residence of seventh inventor

*Hitoshi Abe*

January 10, 2002

Signature of seventh inventor

Date of this assignment

Name of eighth inventor

Execution date of U.S. Patent Application

Residence of eighth inventor

Signature of eighth inventor

Date of this assignment

Name of ninth inventor

Execution date of U.S. Patent Application

Residence of ninth inventor

Signature of ninth inventor

Date of this assignment